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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,925	09/16/2003	Michael E. Benz	P-10908.00	2297
	7590 03/16/2007 AASCH & GEBHARD	EXAMINER		
P.O. BOX 5814	-15	PENG, KUO LIANG		
MINNEAPOLIS, MN 55458			ART UNIT	PAPER NUMBER
			1712	
			, , , , , , , , , , , , , , , , , , ,	
SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/16/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

,	Application No.	Applicant(s)			
	10/663,925	BENZ ET AL.			
Office Action Summary	Examiner	Art Unit			
	Kuo-Liang Peng	1712			
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	th the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the nearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNION R 1.136(a). In no event, however, may a roll. eriod will apply and will expire SIX (6) MON tatute, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 1	1 <u>2/22/06 Response</u> .				
2a)⊠ This action is FINAL . 2b)□	,				
3) Since this application is in condition for allo	owance except for formal matt	ers, prosecution as to the merits is			
closed in accordance with the practice und	ler <i>Ex part</i> e Q <i>uayl</i> e, 1935 C.D	. 11, 453 O.G. 213.			
Disposition of Claims					
4) Claim(s) <u>1-11,13-28,30-34,39 and 40</u> is/ard	e pending in the application.				
4a) Of the above claim(s) 18-28,30-34,39 a	and 40 is/are withdrawn from o	onsideration.			
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-11 and 13-17</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction are	nd/or election requirement.				
Application Papers					
9) The specification is objected to by the Exar	niner.				
10) The drawing(s) filed on is/are: a)	accepted or b) objected to	by the Examiner.			
Applicant may not request that any objection to	the drawing(s) be held in abeyan	ice. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the co	rrection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by the	e Examiner. Note the attached	Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for force a) All b) Some * c) None of:	eign priority under 35 U.S.C. §	119(a)-(d) or (f).			
 Certified copies of the priority docum 	nents have been received.				
2. Certified copies of the priority docum	nents have been received in A	pplication No			
3. Copies of the certified copies of the	priority documents have been	received in this National Stage			
application from the International Bu	, , , , , , , , , , , , , , , , , , , ,				
* See the attached detailed Office action for a	list of the certified copies not	received.			
Amarkan and A					
Attachment(s) 1) Notice of References Cited (PTO-892)	A) []	(DTO 412)			
2) Notice of References Cited (P10-692) Notice of Draftsperson's Patent Drawing Review (PT0-948)) Paper No(s	ummary (PTO-413))/Mail Date			
Information Disclosure Statement(s) (PTO/SB/08)		formal Patent Application			
Paper No(s)/Mail Date <u>12/22/06</u> .	6) 🔲 Other:	→			

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DETAILED ACTION

1. The Applicants' response filed December 22, 2006 is acknowledged. Claims 12, 29 and 35-38 are deleted. Claims 18-28, 30-34 and 39-40 are withdrawn. Now, Claims 1-11 and 13-17 are pending for consideration.

2. The text of those sections of Title 35, U.S. code not included in this action can be found in prior Office Action(s).

Claim Rejections - 35 USC § 102 and 103

3. Rejection of Claims 1-11 and 13-17 under 35 USC 102(b) as being anticipated by Gunatillake327 (WO 99/50327, US 6 437 073) and Rejection of Claims 1-11 and 13-17 under 35 USC 102(b) as being anticipated by Gunatillake863 (WO 99/03863, US 6 420 452) are maintained because the rejection is adequately set forth in paragraph 5 of Paper No. 052706. Applicant's arguments have been fully considered but they are not persuasive. The focus argument related to the core patentability is discussed below.

For Applicants' argument (Remarks, page 2, 5th paragraph to page 3, 2nd paragraph and page 3, 4th paragraph), as mentioned in the previous Office action,

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since Gunatillake327 and Gunatillake863's compounds read on the claimed compound, the segments derived from them should both inherently possess the same "soft" property.

For Applicants' argument (Remarks, page 3, 3rd paragraph), it appears that not all chain extenders form hard segments. Rather, depending on the characteristics of the chain extenders, soft segments can be produced.

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4. Rejection of Claims 1-11, 14-15 and 17 under 35 USC 103(a) as being as being unpatentable over Zdrahala (US 4 647 643) is maintained because the rejection is adequately set forth in paragraph 5 of Paper No. 081906a. Applicant's arguments have been fully considered but they are not persuasive. The focus argument related to the core patentability is discussed below.

For Applicants' argument (Remarks, page 3, last paragraph to page 4, 1st paragraph and page 4, 5th to page 5, 1st paragraph), Examiner disagrees because Zdrahala's siloxane compound is merely a preferred embodiment. Zdrahala does teach the polycarbosilane compounds. Furthermore, Hardman and Torkelson document and Ward document, no segments derived from polycarbosilane diols are taught. Therefore, Applicant's argument appears to be lack of merit with respect to the polycarbosilane diols.

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For Applicants' argument (Remarks, page 4, 2nd paragraph), as mentioned in the previous Office action, Zdrahala teaches the use of a silicone diol of formula (III) where W can be a C1-C4 alkylene. Since this silicone diol is a homolog of Applicants' claimed compound, a *prima facie* case of obviousness may be made when chemical compounds have very close structural similarities and similar utilities. "An obviousness rejection based on similarity in chemical structure and function entails the motivation of one skilled in the art to make a claimed compound, in the expectation that compounds similar in structure will have similar properties." *In re Payne*, 606 F.2d 303, 313, 203 USPQ 245, 254 (CCPA 1979).

See *In re Papesch*, 315 F.2d 381, 137 USPQ 43 (CCPA 1963) See MPEP 2144.09.

For Applicants' argument (Remarks, page 4, 3rd paragraph), Applicants appears to argue that the polyurethanes containing polyethylene or polypropylene segments undergo strain/stress-induced crystallization. Furthermore, polyether (tetramethyl ether, C4) and polyester (tetramethyl adipate, C4) have stress crystallization characteristics too. However, since there is no data regarding the polymers having segments derived from diols more than four carbon atoms, the argument appears to be irrelevant. In addition, Wilkes does not teach segments derived from polycarbosilane diols. As such, the Wilkes' stress/strain-induced crystallization phenomena cannot be correlated to that of Zdrahala's.

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For Applicants' argument (Remarks, page 4, 4th paragraph), since for comparison, there is no data regarding the polymers having segments derived from diols more than four carbon atoms, the argument appears to be irrelevant. In addition, Bonart does not teach segments derived from polycarbosilane diols. As such, the Bonart' stress/strain-induced crystallization phenomena cannot be correlated to that of Zdrahala's.

For Applicants' argument (Remarks, page 5, 2nd paragraph), it is not clear as to what DiDomenico document refers to. Furthermore, Examiner assumes that Tapsak patents refer to US 6 080 829 and US 6 534 587 cited in the information disclosure statement of December 22, 2006. However, the stain induced crystallization behavior of Tapsak's patents appears to be irrelevant because they teach poly(silalkylene-siloxane) diols, rather than the claimed polycarbosilane diols. Also, Tapsak's patents doe not teach polyurethanes.

For Applicants' argument (Remarks, page 5, 3rd paragraph), Dorset teaches polyolefins, but not polymer derived from the polycarbosilane diols. Also, Dorset doe not teach polyurethanes. As such, the Dorset's stress/strain-induced crystallization phenomena cannot be correlated to that of Zdrahala's.

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For Applicants' argument (Remarks, page 5, 4th paragraph), in view of Examiner's positions regarding Zdrahala's disclosure, supra, it appears that Applicants have not yet demonstrated the criticality of the claimed carbon number.

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- 5. The reference U.S. Application Number 11/484,219 is lined through because it is improperly listed in the information disclosure statement filed December 22, 2006. However, it has been fully considered.
- 6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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7. Any inquiry concerning this communication or earlier communications from

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the examiner should be directed to Kuo-Liang Peng whose telephone number is

(571) 272-1091. The examiner can normally be reached on Monday-Friday from

8:30 AM to 5:00 PM. If attempts to reach the examiner by telephone are

unsuccessful, the examiner's supervisor, Randy Gulakowski, can be reached on

(571) 272-1302. The fax phone number for the organization where this application

or proceeding is assigned is 703-872-9306. Information regarding the status of an

application may be obtained from the Patent Application Information Retrieval

(PAIR) system. Status information for published applications may be obtained

from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about

the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on

access to the Private PAIR system, contact the Electronic Business Center (EBC)

at 866-217-9197 (toll-free).

klp

March 14, 2007

Kuo-Liang Peng Primary Examiner

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